State of California - Wireless E9-1-1
Wireless ALI Phase 1/2 Field Parameters (for Format 03 or Format 04)
Note: For slight difference of Format 04, see row 2 and 3 detail that follows.

Row	Column Start	Field Name	Off-set	Length (in bytes)	Wire-Line Use	Proposed Wireless Use	Example of Wireless Display	Notes
01	01	Punctuation ('(')	0	1	Hard-Coded Left Parenthesis for NPA (Area Code) of Calling Number	Same as wire-line.	(	Calling Number is synonymous with the Callback Number (CBN).
01	02	Area Code (NPA)	0	3	Area Code (NPA) of Calling Number	Same as wire-line.	**213**	
01	05	Punctuation (')')	0	1	Hard-Coded Right Parenthesis for NPA (Area Code) of Calling Number	Same as wire-line.	**)**	
01	07	Office Code (NNX)	0	3	Prefix of Calling Number	Same as wire-line.	**321**	
01	10	Punctuation ('-')	0	1	Hard-Coded Hyphen for Calling Number	Same as wire-line.	-	
01	11	TN	0	4	Suffix (last 4 digits) of Calling Number	Same as wire-line.	**1234**	
01	18	Time	0	5	Military time, call hits (is read by) 9—1-1 controller	Same as wire-line.	**17:54**	
01	27	Date	0	5	Date call hits (and is read by) 9-1-1 controller.	Same as wire-line.	**07/05**	
01	32	Punctuation (\015) – Return Character		1	Moves display down to start of 2nd line.	Same as wire-line.		
02	01	House Number	0	Up to 8	Number Address of House or Business	Number Address of Cell Site.	**123**	Will be right justified to match wire-line calls.
02	09 or 10 (F 04)	House # Suffix	0	Up to 4	House Number Suffix	Not used for wireless.		Format 04 provides a space between House # and House # Suffix in column 10.
02	14 or 15 (F 04)	Prefix Directional	0	Up to 2	Prefix of a street name such as the "N" in N 5th Street.			In Format 03, this field starts in column 14. In Format 04, column 15.
02 & 03	17 or 18 (F 04)	Street Name	0	Up to 48, 16 on line 2 and 32 on line 3. Text should not wrap.	Name of the street where the 9-1-1 call has originated.	Street name where cell site is located.	**Main Street**	In Format 03 this field starts in column 17 and contains a maximum of 48 characters. In Format 04 it starts in column 18 and contains a maximum of 47 characters.
04	01	Community Name	0	Up to 18	Name of Community (usually city) where 9-1-1 call was placed.	Name of community where cell site is located.	**LANCASTER**	MSAG-valid community name where cell site is located.

Row	Column Start	Field Name	Off-set	Length (in bytes)	Wire-Line Use	Proposed Wireless Use	Example of Wireless Display	Notes
04	19	State Abbr.	0	2	Name of State	Same as wire-line, except that wireless calls will be noted with CW instead of CA.	**CW**	Generally "CW" for California Wireless. For HCAS only: If there is a site that has sectors routing to different jurisdictions, then each sector gets assigned a CX, CY, or CZ. Nextel is the only WSP that deployed a few HCAS solutions. All other Nextel deployments are NCAS, but use CA. State is requesting that Nextel change to CW for consistency. Using CW helps sort wireless MSAG records.
04	22	ESN	3	3	Emergency Service Number (ESN) of Wire-line jurisdiction. The ESN defines the Emergency Service Zone (ESZ) where a unique combination of police, fire, and medical responders are responsible.	Dedicated Wireless ESN, separate from wire-line. Typically, each agency that answers wireless 9-1-1 directly will have one wireless ESN in addition to their wire-line ESN(s). CHP uses multiple wireless ESNs to separate wireless calls into different trunk groups.	**823**	Wireless ESNs are not linked to English Language Translations (ELTs), a.k.a. telltales, the same way as wire-line calls. Rather each wireless call populates these fields with the ID of the primary wireless PSAP and the message "Query Caller for Location." This is due to the imprecise nature of routing by cell sector. Hence, PSAPs will not be able to use the selective transfer feature for wireless calls. Fixed transfer keys should be programmed instead. Wireless ESNs are assigned by the State 9-1-1 Office.
04	26	Class of Service	0	4	Typically describes the class of service such as BUSN, RESD, PAYP, etc.	Populated by either W911, indicating the Phase 1 location, or WPH2, indicating the Phase 2 location.	**W911**	WPH2, indicating Phase 2, will appear when a wireless service provider (WSP) is delivering the coordinates of the caller. W911, indicating Phase 1, will appear when the WSP is delivering the coordinates of the cell site or cell sector centroid. Call takers will typically have to manually re-bid to receive Phase 2 or to update a caller's location.
04	30	Punctuation (\015)		1	Return data to start of next line on display.	Same as wire-line.		
05	01	Customer Name	0	Up to 32	Displays name of wire-line subscriber.	Used to display name of WSP and 24 by 7 Toll Free contact phone #.	**ABC Wireless (800) 555-1212**	24 x 7 Toll Free number would be the number call taker is to call to inquire about caller's possible whereabouts.
06	01	Punctuation (\015)		1	Hard-Coded Return data to start of next line on display.	Same as wire-line.		
07	17	Punctuation ('(')	0	1	Hard-Coded Left Parenthesis for NPA (Area Code) of pilot number.	Used for P-ANI (ESRK)	**(**	
07	18	Area Code (NPA)	0	3	Area Code (NPA) of pilot number.	Used for P-ANI (ESRK)	**213**	
07	21	Punctuation (')')	0	1	Hard-Coded Right Parenthesis for NPA (Area Code) of pilot number.	Used for P-ANI (ESRK)	**)**	

Row	Column Start	Field Name	Off-set	Length (in bytes)	Wire-Line Use	Proposed Wireless Use	Example of Wireless Display	Notes
07	23	Pilot NNX	0	3	Prefix of pilot number of PBX	Used for P-ANI (ESRK)	**511**	511 has been set aside by telcos as a prefix to use for P-ANIs. The NPA of the P-ANI will always be that of the primary wireless PSAP to which the call was originally routed. P-ANIs are assigned by the State 9-1-1 Office.
07	26	Punctuation ('-')		1	Hyphen separating pilot number NXX from last 4 digits.	Used for P-ANI (ESRK)	**-**	
07	27	Pilot Number (last 4)	0	4	Last 4 digits of pilot number.	Last 4 digits of P-ANI.	**6789**	The thousands range typically indicates the identity of the wireless service provider (WSP). For example, Cingular Wireless has been assigned 1000 – 1999 statewide.
07	31	Punctuation (\015)		1	Hard-Coded Return data to start of next line on display.	Same as wire-line.		
08	01	Location Information	0	20	Typically, something unique about location besides address that is entered to help clarify location (e.g.; apartment, building, etc.)	Used to display abbreviated community name plus the reference from Thomas Bros. map page, grid, & sector directional.	**LANC TB 3925 F2 SW**	That shown is for the southwest sector of a cell site in the community of Lancaster, with a Thomas Brothers map page of 3925 on the F2 grid. The last two characters of this field are reserved for the cell sector directional and should appear in field 20 if it's single, 19-20 if it's double. If there is no TB information, the sector directional shall stay in the designated field(s) and not be left justified.
08	21	Punctuation (\015)		1	Hard-Coded Return of data to start of next line on display.	Same as wire-line.		
09	01	Company ID	0	5	ILEC or CLEC NENA ID	Not used for wireless		
09	08	Telco Comments	0	Up to 23		Not used for wireless.		
09	31	Punctuation (\015)		1	Hard-Coded Return of data to start next line on display.	Same as wire-line.		
10	01	Punctuation (\012)		1				
11	01	California ELT	0	Up to 71	Law enforcement, fire, and EMS providers associated with ESN. Works with selective Xfer.	To identify the Wireless Emergency Service Zone (ESZ) and the call as wireless.	**CHP Antelope Valley Area Query caller for location**	This field shows the primary wireless PSAP to which the call was routed. This data can be used to assist the PSAP in optimizing wireless call routing.
13	08	Punctuation (\015)		1	See Notes.	Hard-Coded Return of data to start next line.		
14	01	Latitude Label	0	3	Displays the label "LAT".	Displays the label "LAT".	**LAT**	

Row	Column Start	Field Name	Off-set	Length (in bytes)	Wire-Line Use	Proposed Wireless Use	Example of Wireless Display	Notes
14	05	Latitude Coordinate	0	7	Will not be used until/unless wire-line ALI providers upgrade to support geo-spatial data.	Either the latitude of wireless caller (Phase 2 location) or the cell site or cell sector centroid (Phase 1 location), as delivered by WSP.	**36.884512300**	Some WSPs deliver longitude and latitude of the cell sector centroid, instead of the cell site for Phase 1. The cell sector centroid is the mid-point of the sector coverage area. Leading +0 removed and numbers are left justified.
14	13	Longitude Label	0	3	Displays the label "LON".	Displays the label "LON".	**LON**	
14	21	Longitude Coordinate	0	11	Will not be used until/unless wire-line ALI providers upgrade to support geo-spatial data.	Either the longitude of wireless caller (Phase 2 location) or the cell site or cell sector centroid (Phase 1 location), as delivered by WSP.	**-121.551234**	Some WSPs deliver longitude and latitude of the cell sector centroid, instead of the cell site for Phase 1. The cell sector centroid is the mid-point of the sector coverage area.
14	32	Punctuation (015)	0	1	Hard-Coded Return of data to start next line on display.	Hard-Coded Return of data to start next line on display.		
15	01	Uncertainty Factor Label	0	3	Displays the Uncertainty Factor Label "METERS".	Displays the Uncertainty Factor Label "METERS".	**METERS**	Since uncertainty is measured in meters, this field is labeled , "METERS."
15	05	Uncertainty Factor	0	7	Not used for wire-line.	Measure of potential distance away from lat/long coordinate of caller or cell site (in meters) to be read in conjunction with the confidence value. See below.	**14**	Gives call taker an indication of the accuracy of location (lat/long coordinates) delivered. Is used for both Phase 1 and 2 location fixes, but is most useful for Phase 2. In essence, the smaller this value, the better the location information. Not required by FCC 94-102, so not all WSPs may deliver.
15	15	Confidence Factor Label	0	3	Displays the Confidence Factor Label "COF".	Displays the Confidence Factor Label "PERCENT".	**PERCENT**	Since confidence is measured in percent, this field is labeled "PERCENT."
15	19	Confidence Factor	0	3	Not used for wire-line.	Gives call taker another (percent) indication of the reliability of the location coordinate. NOTE: IF THIS VALUE IS 100 %, IT"S A PHASE 1 LOCATION.	**95**	Measure of the reliability of the uncertainty measurement being delivered. 95 means there is a 19 out of 20 (95%) chance (0.95 probability) that the caller is within the uncertainty measurement being delivered. Confidence cannot exceed 100 %.
15	32	Punctuation (015)	0	1	Hard-Coded Return of data to start next line on display.	Hard-Coded Return of data to start next line on display.		
16	01	Future Spaces for elevation, speed, and direction	0	31		More information to the PSAP.	**Three letter labels will probably be used: ELV, SPD, DIR**	These are possible future fields and will not be displayed.
16	32	Punctuation (\015)		1		Hard-Coded Return of data to start next line on display.		
17	01	Punctuation (\003)		1		End of text character		The End